

=> fil reg
FILE 'REGISTRY' ENTERED AT 09:15:43 ON 21 MAY 91
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STRUCTURE FILE UPDATES: HIGHEST RN 133867-54-6
DICTIONARY FILE UPDATES: 18 MAY 91 (910518/ED) HIGHEST RN 133849-99-7

=> s sieeavpavck/sqs and dptsanfliwppcv/sqs and qpsrvhhrrsv/sqs and leehlec
acatt/sqs

25 SIEEA/SQS
29 EEA VP/SQS
26 AVPAV/SQS
15 PAVCK/SQS
76 AVCK/SQS
10431 CK/SQS
11 SIEEAVPAVCK/SQS
20 DPTSA/SQS
14 TSANF/SQS
18 ANFLI/SQS
10 FLIWP/SQS
10 IWPPC/SQS
68 PPCV/SQS
11565 CV/SQS
10 DPTSANFLIWPPCV/SQS
12 QPSRV/SQS
10 SRVHH/SQS
32 VHHRS/SQS
121 HRSV/SQS
26161 SV/SQS
10 QPSRVHRSV/SQS
15 LEEHL/SQS
15 EHLEC/SQS
15 LECAC/SQS
10 CACAT/SQS
55 CATT/SQS
21241 TT/SQS
10 LEEHLECACATT/SQS
L2 10 SIEEAVPAVCK/SQS AND DPTSANFLIWPPCV/SQS AND QPSRVHRSV/SQS
AND LEEHLECACATT/SQS

=> d sub can

L2 ANSWER 1 OF 10
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 132017-22-2
CN Blood platelet-derived growth factor (human isoform AA protein
moiety) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC CA, CJACS
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: CA114(15):136166p

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=> d sqide

L2 ANSWER 1 OF 10
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY

RN 132017-22-2
CN Blood platelet-derived growth factor (human isoform AA protein
moiety) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor
ORGN human
SQL 220,110,110
NTE multichain

type	----- location -----		description
bridge	Cys-10	- Cys-91	disulfide bridge, dimer
bridge	Cys-37	- Cys-46'	disulfide bridge, dimer
bridge	Cys-43	- Cys-54	disulfide bridge, dimer
bridge	Cys-47	- Cys-93'	disulfide bridge, dimer

SEQ	1 SIEEAVPAVC	KTRTVIYEIP	RSQVDPTSAN	FЛИWPPCVEV	KRCTGCCNTS
	=====	=	=====	=====	=====
	51 SVKCQPSRVH	HRSVKVAKVE	YVRKKPKLKE	VQVRLEEHLE	CACATTSLNP
	=====	=====	=====	=====	=====
	101 DYREEDTDVR				

HITS AT: 1-11, 25-38, 55-64, 85-96

SEQ	1 SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS ===== = ===== =====
	51 SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP ===== === ===== =====

101 DYREEDTDVR
HITS AT: 1-11, 25-38, 55-64, 85-96

MF Unspecified

CL MAN

SR CA

LC CA, CJACS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

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L2 ANSWER 2 OF 10
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RN 121273-05-0
CN 1-196-Blood platelet-derived growth factor (human clone D1
prepro-A-chain protein moiety reduced) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor, 1-196-
ORGN human
CLO D1
SHG reduced

SQL 196

SEQ	1 MRTLACLLLL GCGYLAHVLA EEEAEIFREVI ERLARSQIHS IRDLQRLLEI
	51 DSVGSEDSLQ TSLRAHGVHA TKHVPEKRPL PIRRKRSIEE AVPAVCKTRT
	===== =====
	101 VIYEIPRSQV DPTSANFLIW PPCVEVKRCT GCCNTSSVKC QPSRVHHRSV
	===== === =====
	151 KVAKVEYVRK KPKLKEVQVR LEEHLECACA TTSLNPDYRE EDTGRP
	===== ==

HITS AT: 87-97, 111-124, 141-150, 171-182

MF Unspecified
CI MAN
SR CA
LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j

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L2 ANSWER 3 OF 10
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RN 121273-04-9
CN 1-110-Blood platelet-derived growth factor (human clone D1 A-chain
protein moiety reduced) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor, 1-110-
ORGN human
CLO D1
SHG reduced
SOL 110

```

SEQ      1 SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS
        ===== = ===== =====
51  SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP
        ===== ===== ===== =====

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101 DYREEDTGRP

HITS AT: 1-11,
MF Unspecified
CI MAN
SR CA
LG CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: B CA111(3):18810j

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'4'

'4' IS NOT A RECOGNIZED COMMAND

=> d sqide can 4

L2 ANSWER 4 OF 10

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RN 121273-03-8

CN 1-107-Blood platelet-derived growth factor (human clone D1 A-chain protein moiety reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SSI Blood platelet-derived growth factor, 1-107-

ORGN human

CLO D1

SHG reduced

SQL 107

SEQ 1 SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS

===== = ===== =====

51 SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP

===== ===== ===== =====

101 DYREEDT

HITS AT: 1-11, 25-38, 55-64, 85-96

MF Unspecified

CI MAN

SR CA

LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j

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=> d sqide can 5

L2 ANSWER 5 OF 10

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RN 121273-02-7

CN Blood platelet-derived growth factor (human clone pSV7d-PDGF-A102 pro-A-chain protein moiety reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SSI Blood platelet-derived growth factor

ORGN human

CLO pSV7d-PDGF-A102

SHG reduced

SQL 176

SEQ 1 EEAEIFPREVI ERLARSQIHS IRDLQRLL EI DSVGSEDSL D TSLRAHGVA

51 TKHVPEKRPL PIRRKRSIEE AVPAVCKRT VIYEIPRSQV DPTSANFLIW

===== =====

===== =====

101 PPCVEVKRCT GCCNTSSVKC QPSRVHRSV KVAKVEYVRK KPKLKEVQVR

===== =====

151 LEEHLECACA TTSLNPDYRE EDTDVR

===== ==

HITS AT: 67-77, 91-104, 121-130, 151-162

MF Unspecified

CI MAN

SR CA
LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j

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=> d sqide can 6

L2 ANSWER 6 OF 10

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RN 121273-01-6
CN Blood platelet-derived growth factor (human clone pSV7d-PDGF-A102
A-chain protein moiety reduced) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor
ORGN human
CLO pSV7d-PDGF-A102
SHG reduced
SQL 110

SEQ 1 SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS
===== = ===== =====
51 SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP
===== ===== ===== =====

101 DYREEDTDVR

HITS AT: 1-11, 25-38, 55-64, 85-96

MF Unspecified

CI MAN

SR CA

LC CA, CJACS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

5 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(19):179729s
REFERENCE 2: CA114(15):136166p
REFERENCE 3: P CA114(9):76412d
REFERENCE 4: CA113(7):53599k
REFERENCE 5: P CA111(3):18810j

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=> d sqide can 7

L2 ANSWER 7 OF 10

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RN 121273-00-5
CN Blood platelet-derived growth factor (human clone D1 pro-A-chain
protein moiety reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor
ORGN human
CLO D1
SHG reduced
SQL 191

SEQ 1 EEAEIFPREVI ERLARSQIHS IRDLQRLLEI DSVGSEDSLDS TSLRAHGVHA
51 TKHVPEKRPL PIRRKRSIEE AVPAVCKTRT VIYEIPRSQV DPTSANFLIW
===== =====
101 PPCVEVKRCT GCCNTSSVVC QPSRVHRSV KVAKEVYVRK KPKLKEVQVR
===== =====
151 LEEHLECACA TTSLNPDYRE EDTGRPRESG KKRKRKRLKP T
===== ==

HITS AT: 67-77, 91-104, 121-130, 151-162

MF Unspecified

CI MAN

SR CA

LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j

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=> d sqide can 8

L2 ANSWER 8 OF 10

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RN 113356-34-6
CN Blood platelet-derived growth factor (human clone pPGF-2
prepro-A-chain protein moiety reduced) (9CI) (CA INDEX NAME)
CN Blood platelet-derived growth factor (human clone pSV7d-PDGF-A102
prepro-A-chain protein moiety reduced)
FS PROTEIN SEQUENCE
SSI Blood platelet-derived growth factor
ORGN human
ORGN human
CLO pPGF-2
SHG reduced
SQL 196

SEQ 1 MRTLACLLLL GCGYLAHVLA EEAEIFPREVI ERLARSQIHS IRDLQRLLEI
51 DSVGSEDSLDS TSLRAHGVHA TKHVPEKRPL PIRRKRSIEE AVPAVCKTRT
===== =====
101 VIYEIPRSQV DPTSANFLIW PPCVEVKRCT GCCNTSSVVC QPSRVHRSV
===== =====
151 KVAKEVYVRK KPKLKEVQVR LEEHLECACA TTSLNPDYRE EDTDVR
===== ==

HITS AT: 87-97, 111-124, 141-150, 171-182

MF Unspecified

CI MAN

SR CA

LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

4 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA114(5):37184m
REFERENCE 2: P CA111(3):18810j
REFERENCE 3: CA108(17):144478h
REFERENCE 4: CA108(15):125524d

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=> d sqide can 9

L2 ANSWER 9 OF 10

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RN 103018-32-2

CN Blood platelet-derived growth factor (human clone D1 A-chain protein moiety reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SSI Blood platelet-derived growth factor

ORGN human

CLO D1

SHG reduced

SQL 125

SEQ 1 SIEEA VPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS

===== = ===== =====

51 SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP

===== ===== ===== =====

101 DYREEDTGRP RESGKKRKRK RLKPT

HITS AT: 1-11, 25-38, 55-64, 85-96

MF Unspecified

CI MAN

SR CA

LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

2 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j

REFERENCE 2: CA105(5):36617g

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=> d sqide can 10

L2 ANSWER 10 OF 10

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RN 103018-31-1

CN Blood platelet-derived growth factor (human clone D1 prepro-A-chain protein moiety reduced) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

SSI Blood platelet-derived growth factor

ORGN human

CLO D1

SHG reduced
SQL 211

SEQ 1 MRTLACLLL GCGYLAHVLA EEAEIFREVI ERLARSQIHS IRDLQRLL EI
51 DSVGSEDSL TSLRAHGVHA TKHVPEKRPL PIRRKRSIEE AVPAVCKTRT
===== =====
101 VIYEIPRSQV DPTSANFLIW PPCVEVKRCT GCCNTSSVKC QPSRVHRSV
===== == =====
151 KVAKVEYVRK KPKLKEVQVR LEEHLECACA TTSLNPDYRE EDTGRPRESG
===== ==

201 KKRKRKRLKP T

HITS AT: 87-97, 111-124, 141-150, 171-182

MF Unspecified

CI MAN

SR CA

LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

4 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P CA111(3):18810j
REFERENCE 2: CA109(9):67916r
REFERENCE 3: CA108(17):144478h
REFERENCE 4: CA105(5):36617g

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=> save 12 guest633/a

ANSWER SET 'L2' HAS BEEN SAVED AS 'GUEST633/A'

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=> fil ca

FILE 'CA' ENTERED AT 09:21:51 ON 21 MAY 91

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FILE COVERS 1967 - 17 May 91 (910517/ED) VOL 114 ISS 20.

All OFFLINE Prints or Displays, use the ABS or ALL formats to obtain abstract graphic structures. The AB format DOES NOT display structure diagrams.

=> s 12

L3 10 L2

=> d 1-10 bib hit

L3 ANSWER 1 OF 10

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AN CA114(19):179729s

TI Manufacture of platelet-derived growth factor AA with transgenic animal cell cultures

AU Eichner, Wolfram; Hoppe, Juergen

CS Gesellschaft fuer Biotechnologische Forschung m.b.H. (GBF)

LO Fed. Rep. Ger.

SO Ger. Offen., 10 pp.
PI DE 3908802 A1 20 Sep 1990
AI DE 89-3908802 17 Mar 1989
IC ICM C12N001-14
ICS C12N015-63; C12P019-34; C12P021-04; C07H021-00; C07K015-04;
C07K017-14; C07K003-20
ICA C07K003-20; C07K003-24; C07K003-26
SC 3-4 (Biochemical Genetics)
SX 2, 16
DT P
CO GWXXBX
PY 1990
LA Ger
IT 121273-01-6, Blood platelet-derived growth factor (human
clone pSV7d-PDGF-A102 A-chain protein moiety reduced)
(gene for, expression in BHK-21 cells of, manuf. of homodimer by)

L3 ANSWER 2 OF 10

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AN CA114(15):136166p
TI On the structure of platelet-derived growth factor AA: C-terminal
processing, epitopes and characterization of cysteine residues
AU Jaumann, Monika; Hoppe, Viviane; Tatje, Dieter; Eichner, Wolfram;
Hoppe, Juergen
CS Physiol.-Chem. Inst., Univ. Wuerzburg
LO Wuerzburg D-8700, Fed. Rep. Ger.
SO Biochemistry, 30(13), 3303-9
SC 2-2 (Mammalian Hormones)
DT J
CO BICHAW
IS 0006-2960
PY 1991
LA Eng
OS CJACS
IT 121273-01-6, Blood platelet-derived growth factor (human
clone pSV7d-PDGF-A102 A-chain protein moiety reduced)
(amino acid sequence of)
IT 132017-22-2, Blood platelet-derived growth factor (human
isoform AA protein moiety)
(disulfide bond location in)

L3 ANSWER 3 OF 10

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AN CA114(9):76412d
TI Recombinant manufacture of monomeric and dimeric platelet-derived
growth factor analogs
AU Hoppe, Juergen; Weich, Herbert A.
LO Fed. Rep. Ger.
SO Ger. Offen., 11 pp.
PI DE 3900770 A1 26 Jul 1990
AI DE 89-3900770 12 Jan 1989
IC ICM C12P021-02
ICS C12P019-34; C07H021-04; C12N015-00; C12N001-20; C07K013-00;
C07K003-20; C07K003-22
ICA C07K003-14
ICI C12P021-02, C12R001-19
SC 3-4 (Biochemical Genetics)
SX 16
DT P
CO GWXXBX

PY 1990

LA Ger

IT 121273-01-6, Blood platelet-derived growth factor (human
clone pSV7d-PDGF-A102 A-chain protein moiety reduced)
(amino acid sequence of and expression in Escherichia coli of
chimeric genes encoding)

L3 ANSWER 4 OF 10

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AN CA114(5):37184m
TI Recombinant platelet-derived growth factor a-chain derived from
endothelial cells
AU Tong, Benton D.; Deuel, Thomas F.; Jaye, Michael C.; Drohan, William
N.
CS Rorer Biotechnology, Inc.; Jewish Hospital of St. Louis
LO USA
SO Eur. Pat. Appl., 10 pp.
PI EP 366816 A1 9 May 1990
DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 88-118166 31 Oct 1988
IC ICM C12N015-16
 ICS C12P021-02
SC 3-4 (Biochemical Genetics)
DT P
CO EPXXDW
PY 1990
LA Eng
IT 113356-34-6, Blood platelet-derived growth factor (human
clone pPGF-2 prepro-A-chain protein moiety reduced)
(amino acid sequence of and cloning in Escherichia coli of cDNA
for)

L3 ANSWER 5 OF 10

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AN CA113(7):53599k
TI Large-scale preparation of recombinant platelet-derived growth
factor AA secreted from recombinant baby hamster kidney cells
AU Eichner, Wolfram; Jaeger, Volker; Herbst, Detlev; Hauser, Hansjoerg;
Hoppe, Juergen
CS Ges. Biotechnol. Forsch. m.b.H.
LO Braunschweig, Fed. Rep. Ger.
SO Eur. J. Biochem., 185(1), 135-40
SC 3-4 (Biochemical Genetics)
SX 6, 13
DT J
CO EJBCAI
IS 0014-2956
PY 1989
LA Eng
IT 121273-01-6, Blood platelet-derived growth factor (human
clone pSV7d-PDGF-A102 A-chain protein moiety reduced)
(amino acid sequence of)

L3 ANSWER 6 OF 10

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AN CA111(3):18810j
TI Recombinant manufacture of platelet-derived growth factors for use
in wound healing
AU Heldin, Carl Henrik; Betsholtz, Christer; Westermark, Bengt; Knott,

CS Timothy J.; Scott, James; Bell, Graeme I.; Rall, Leslie
Chiron Corp.
LO USA
SO Eur. Pat. Appl., 31 pp.
PI EP 288307 A2 26 Oct 1988
DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 88-303658 22 Apr 1988
PRAI US 87-41299 22 Apr 1987
IC ICM C12N015-00
ICS C12N001-16; C12N005-00; A61K037-24
SC 3-4 (Biochemical Genetics)
SX 16, 63
DT P
CO EPXXDW
PY 1988
LA Eng
IT 113356-34-6, Blood platelet-derived growth factor (human clone pPGF-2 prepro-A-chain protein moiety reduced)
121273-00-5, Blood platelet-derived growth factor (human clone D1 pro-A-chain protein moiety reduced) 121273-01-6,
Blood platelet-derived growth factor (human clone pSV7d-PDGF-A102 A-chain protein moiety reduced) 121273-02-7, Blood platelet-derived growth factor (human clone pSV7d-PDGF-A102 pro-A-chain protein moiety reduced)
(amino acid sequence of)
IT 103018-31-1, Blood platelet-derived growth factor (human clone D1 prepro-A-chain protein moiety reduced) 103018-32-2,
, Blood platelet-derived growth factor (human clone D1 A-chain protein moiety reduced) 121273-05-0
(amino acid sequence of and cloning and expression in Saccharomyces cerevisiae of cDNA for)
IT 121273-03-8 121273-04-9
(amino acid sequence of and expression in Saccharomyces cerevisiae of cDNA for)

L3 ANSWER 7 OF 10
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AN CA109(9):67916r
TI Platelet-derived growth factor A chain: gene structure, chromosomal location, and basis for alternative mRNA splicing
AU Bonthron, David T.; Morton, Cynthia C.; Orkin, Stuart H.; Collins, Tucker
CS Div. Hematol.-Oncol., Child. Hosp.
LO Boston, MA 02115, USA
SO Proc. Natl. Acad. Sci. U. S. A., 85(5), 1492-6
SC 3-3 (Biochemical Genetics)
SX 6, 13
DT J
CO PNASA6
IS 0027-8424
PY 1983
LA Eng
IT 103018-31-1
(amino acid sequence of)

L3 ANSWER 8 OF 10
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AN CA108(17):144478h
TI Structural characterization of the human platelet-derived growth factor A-chain cDNA and gene: alternative exon usage predicts two

AU different precursor proteins
AU Rorsman, Fredrik; Bywater, Margaret; Knott, Timothy J.; Scott,
James; Betsholtz, Christer
CS Dep. Pathol., Univ. Hosp.
LO Uppsala S-751 85, Swed.
SO Mol. Cell. Biol., 8(2), 571-7
SC 3-3 (Biochemical Genetics)
SX 13
DT J
CO MCEBD4
IS 0270-7306
PY 1988
LA Eng
IT 103018-31-1 113356-34-6
(amino acid sequence of)

L3 ANSWER 9 OF 10
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AN CA108(15):125524d
TI The long 3'-untranslated regions of the PDGF-A and -B mRNAs are only
distantly related
AU Hoppe, J.; Schumacher, L.; Eichner, W.; Weich, H. A.
CS Dep. Cytogenet., Ges. Biotechnol. Forsch. m.b.H.
LO Braunschweig D-3300, Fed. Rep. Ger.
SO FEBS Lett., 223(2), 243-6
SC 3-3 (Biochemical Genetics)
SX 13, 14
DT J
CO FEBLAL
IS 0014-5793
PY 1987
LA Eng
IT 113356-34-6
(amino acid sequence of)

L3 ANSWER 10 OF 10
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AN CA105(5):36617g
TI cDNA sequence and chromosomal localization of human platelet-derived
growth factor A-chain and its expression in tumor cell lines
AU Betsholtz, Christer; Johnsson, Ann; Heldin, Carl Henrik; Westermark,
Bengt; Lind, Peter; Urdea, Mickey S.; Eddy, Roger; Shows, Thomas B.;
Philpott, Karen; et al.
CS Dep. Pathol., Univ. Hosp.
LO Uppsala S-751 85, Swed.
SO Nature (London), 320(6064), 695-9
SC 3-3 (Biochemical Genetics) VM
SX 2, 13, 15 ID5
DT J
CO NATUAS
IS 0028-0836
PY 1986
LA Eng
IT 103018-31-1 103018-32-2
(amino acid sequence of)

=> fil caold

FILE 'CAOLD' ENTERED AT 09:23:45 ON 21 MAY 91
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FILE LAST UPDATED: 11 MAY 91 (910511/ED)

=> S 12
L4 O L2

=> fil hom
FILE 'HOME' ENTERED AT 09:23:58 ON 21 MAY 91